



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4777-1

Job Sheet 183442



Part No: D4777-1

Job Qty: 10 ea

Part Name: Rod End Bearing



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 9/18/18

Job Tracking No:

Due Date: 10/5/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV A IPP REV:A 12.10.03 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	10 pcs		10/5/18	0.00	0.00	Purchasing		SEP 25 2018
110	Packaging	10 pcs		10/5/18	0.00	0.00	Packaging2		SEP 25 2018
120	QC	10 pcs		10/5/18	0.00	0.00	QC6		61
130	Packaging	10 pcs		10/5/18	0.00	0.00	Packaging3-2	54/15	OCT 15 2018
140	QC21-SA	10 Ea		10/5/18	0.00	0.00	QC21	21	OCT 15 2018

Part Op 100 - Issue P/O: 41083 Purchase Part Number: 59915K274 or CTG
Descriptions: 110 - Ensure certificate of conformity is attached

SEP 20 2018

DAS
13
9-89

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
59915K274	Rod End Bearing D4777-1	10 pcs (1 ea)	100-Purchasing	5113217

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	59915K274	10	0	0

Part Specifications

Specifications could not be found.

Plex 9/18/18 10:36 AM Dart.lajeunesse.marie



Container No: S113220



Part: D4777-1

Job No: 183442

Serial No/Batch: S113220

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 09/25/18

DQA: _____ Date: _____



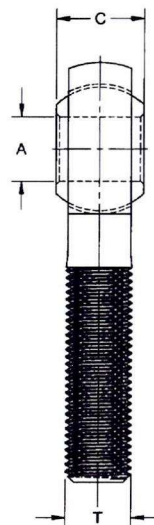
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

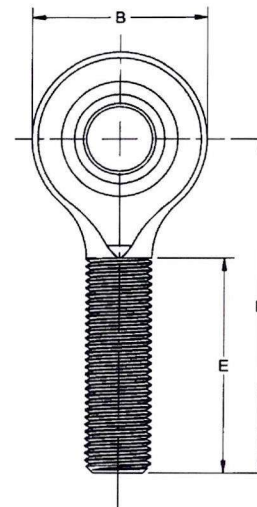
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

SPECIFICATION CONTROL DRAWING



ROD END BEARING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 183448
MJS

1809-18

DART P/N	HOUSING MATERIAL	A	B	C	D	E	T (THREAD SIZE)	SUGGESTED SUPPLIER	SUGGESTED SUPPLIER P/N
D4777-1	STAINLESS STEEL	Ø 0.38	1.00	0.500	1.94	1.25	3/8-24 (RIGHT HAND)	MC MASTER CARR	59915K274

RELEASED
2013-08-14

A	NEW ISSUE	AJS	13.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	D4777	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	ROD END BEARING	NTS
DATE	13.08.08	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041083**

Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO041083

PO Date: 9/20/18

Due Date: 9/25/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
SEP 20 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	183442	59915K274		Rod End Bearing D4777-1 AS PER DWG D4777 REV. A	Firmed	-	9/25/18	10 pcs	0 pcs	10 pcs	\$17.14/pcs	\$171.40
						CO X					DAS 61 9-89	
2		98381A511	5/pk	Dowel Pin 3/16" Dia. 1- 1/8" Long receive pcs	Firmed	-	9/25/18	10 pcs	0 pcs	10 pcs	\$1.856/pcs	\$18.56
3		C45-15-7	98023A036 20/pk	Washer, Lifting Bolt	Firmed	-	9/25/18	40 pcs	0 pcs	40 pcs	\$0.4685/pcs	\$18.74
4		51495K116	1/pk	COUPLING 1/2" NCKL PLTD BRASS	Firmed	-	9/25/18	10 Ea	0 Ea	10 Ea	\$7.78/Ea	\$77.80
5		6546K56	3 ft long	Rectangular Tube, 1/8" wall, 1-1/4" High x 1- 1/4" wide	Firmed	-	9/25/18	12 Ea	0 Ea	12 Ea	\$26.16/Ea	\$313.92
						Andrew						
6		86015K11		Neoprene Rubber Sheet, 12" x 12" x 1/16" Thick, (60A Medium Hard)	Firmed	-	9/25/18	2 sf	0 sf	2 sf	\$8.47/sf	\$16.94
7	183564	86715K27		Adhesive Rubber Seal 60A durometer 601.3083	Firmed	-	9/25/18	4 pcs	0 pcs	4 pcs	\$16.73/pcs	\$66.92
						3x						



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PURCHASE ORDER

PO041083

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
8		9452K410	100/pk	O-Ring #220 x 1/8" Width Oil-Resistant Buna-N O-Ring, 1/8 Fractional Width, Dash Number 220	Firmed	-	9/25/18	100 Ea	0 Ea	100 Ea	\$0.107/Ea	\$10.70
9		97395A441	10/pack	Dowel Pin, 3/16" SS, 1/8" dia., 1/2" Long 316 Stainless Steel, 1/8" Diameter, 1/2" Long	Firmed	-	9/25/18	20 Ea	0 Ea	20 Ea	\$0.725/Ea	\$14.50
10		98105A083	1/PK	Dowel Pin, Steel Undersized 1/8" Dia. x 3/8" Long Alloy Steel, 1/8" Diameter, 3/8" Long	Firmed	-	9/25/18	6 Ea	0 Ea	6 Ea	\$2.89/Ea	\$17.34
11		98380A435	25/pk	Dowel Pin, SS 3/32" dia. x 5/16" Long 416 Stainless Steel Dowel Pins 3/32" Diameter, 5/16" Long	Firmed	-	9/25/18	25 Ea	0 Ea	25 Ea	\$0.3624/Ea	\$9.06
12		98380A439	10/pk	SS Dowel Pin 3/32" Dia. X 9/16" Lg. 416 Stainless Steel Dowel Pins 3/32" Diameter, 9/16" Long	Firmed	-	9/25/18	20 Ea	0 Ea	20 Ea	\$0.837/Ea	\$16.74
13		98381A332	25/pk	Steel Dowel Pin 1/4" Dia. x 1-1/4" Lg. Dowel Pin Black-Oxide Alloy Steel, 1/4" Diameter, 1-1/4" Long	Firmed	-	9/25/18	25 Ea	0 Ea	25 Ea	\$0.4056/Ea	\$10.14
14		98381A547	1/pk	Dowel Pin, Steel 1/4" dia. x 1-5/8" OD Dowel Pin Alloy Steel, 1/4" Diameter, 1-5/8" Long	Firmed	-	9/25/18	10 Ea	0 Ea	10 Ea	\$2.50/Ea	\$25.00

100 X SEP 25 2018



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PURCHASE ORDER
PO041083

						Items						
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
15		98585A133	5/pk	Steel External Retaining Ring for 1-1/2" OD	Firmed	-	9/25/18	10 Ea	0 Ea	10 Ea	\$2.26/Ea	\$22.60
16		98758A623	1/pk	Threaded Rod 3/4"-10 x 5-1/2" Long	Firmed	-	9/25/18	6 Ea	0 Ea	6 Ea	\$4.70/Ea	\$28.20
17		6051A29	1/pk	10 OZ. Dead Blow Hammer	Firmed	-	9/25/18	2 Ea	0 Ea	2 Ea	\$23.66/Ea	\$47.32
18		90044A164	1/pk	Socket Head Screw 1/2"-13 x 2-1/2" Long Steel receive ea	Firmed	-	9/25/18	6 Ea	0 Ea	6 Ea	\$2.58/Ea	\$15.48
19		90273A194	100/pk	Flat Head Screw #8-32 x 1/2" Long	Firmed	-	9/25/18	100 Ea	0 Ea	100 Ea	\$0.0372/Ea	\$3.72
20		91131A090	1/pk	Steel Leveling Washer for 3/4" Screw Size	Firmed	-	9/25/18	6 Ea	0 Ea	6 Ea	\$3.98/Ea	\$23.88
21		91257A572	25/pk	Steel Hex Head 1/4"-28 x 5/16" Thk.	Firmed	-	9/25/18	25 Ea	0 Ea	25 Ea	\$0.35/Ea	\$8.75
22		91922A227	50/pk	Flat Washer, Steel 3/8" ID x 5/8" OD High-Strength Steel Hex Nut Grade 8, Zinc Yellow-Chromate Plated, 5/16" - 18 Thread Sie	Firmed	-	9/25/18	50 Ea	0 Ea	50 Ea	\$0.26/Ea	\$13.00
23		92018A540	25/pk	Flange Locknut 1/2"-13 Steel High-Strength Steel Nylon-Insert Flange Locknut Grade G, Zinc Yellow-Chromate Plated, 1/2"-13 Thread Size	Firmed	-	9/25/18	25 Ea	0 Ea	25 Ea	\$0.29/Ea	\$7.25



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PURCHASE ORDER

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Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
24		92383A704	50/pk	Spring Pin, SS 1/8" dia. x 1-1/2" Long 400 Series Stainless Steel Slotted Spring Pin 1/8" Diameter, 1-1/2" Long	Firmed	-	9/25/18	50 Ea	0 Ea	50 Ea	\$0.1162/Ea	\$5.81
25		9452K380	100/pk	O-Ring #218 x 1/8" Width Oil-Resistant Buna-N O-Ring 1/8 Fractional Width, Dash Number 218	Firmed	-	9/25/18	100 Ea	0 Ea	100 Ea	\$0.0954/Ea	\$9.54
Grand Total:												\$973.31

Order Notes

Procurement Quality Clauses
 A005 RIGHT OF ENTRY
 A016 PERSONNEL QUALIFICATION
 A026 CERTIFICATION OF MATERIAL CONFORMANCE
 A032 DOCUMENT SPECIAL REQUIREMENTS
 A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
 A040 NOTIFICATION OF QUALITY ESCAPE
 A041 QUALITY MANAGEMENT SYSTEM
 A042 DART NOTIFICATION BY SUPPLIER
 A043 RETENTION OF QUALITY DOCUMENTS
 A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
 A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 9/20/18 1:29 PM dart.lavoie.chantal

0 Aurora Industrial Pkwy
Aurora OH 44202-8087
0-995-5500
sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: PO041083

Purchase Order
PO041083

Order Placed By
Chantal Lavoie

McMaster-Carr Number
1508360-01

Page 1 of 2

09/20/2018

Part Number	Product	Ordered	Shipped	
59915K274	Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	10 Each	10	DAS 61 9-89
98381A511	Dowel Pin, Alloy Steel, 3/16" Diameter, 1-1/8" Long, Packs of 5	2 Packs	2	
98023A036	Zinc Yellow-Chromate Plated Grade 8 Steel Washer for 3/4" Screw Size, 0.812" ID, 1.469" OD, Packs of 20	2 Packs	2	
51495K116	Nickel-Plated Brass Push-to-Connect Tube Fitting for Air, Straight Connector, for 1/2" Tube OD	10 Each	10	
86015K11	Multipurpose Neoprene Rubber with Buffed Texture, Sheet, 12" x 12", 1/16" Thick	2 Each	2	
9452K41	Oil-Resistant Buna-N O-Ring, 1/8 Fractional Width, Dash Number 220, Packs of 100	1 Pack	1	
97395A441	Dowel Pin, 316 Stainless Steel, 1/8" Diameter, 1/2" Long, Packs of 10	2 Packs	2	
98105A083	Undersized Dowel Pin, Alloy Steel, 1/8" Diameter, 3/8" Long	6 Each	6	
98380A435	416 Stainless Steel Dowel Pins, 3/32" Diameter, 5/16" Long, Packs of 25	1 Pack	1	
98380A439	416 Stainless Steel Dowel Pins, 3/32" Diameter, 9/16" Long, Packs of 10	2 Packs	2	
98381A332	Dowel Pin, Black-Oxide Alloy Steel, 1/4" Diameter, 1-1/4" Long, Packs of 25	1 Pack	1	
98381A547	Dowel Pin, Alloy Steel, 1/4" Diameter, 1-5/8" Long, Packs of 1	10 Packs	10	
98585A133	Heavy Duty External Retaining Rings, Black-Phosphate Steel, for 1-1/2" OD, Packs of 5	2 Packs	2	
98758A623	Medium-Strength Threaded Rod, Grade B7 Black-Oxide Steel, 3/4"-10 Thread Size, 5-1/2" Long	6 Each	6	
6051A29	High-Visibility Polyurethane Dead Blow Hammer, 10 oz.	2 Each	2	
90044A164	Black-Oxide Alloy Steel Socket Head Screw, 1/2"-13 Thread Size, 2-1/2" Long, Fully Threaded, Packs of 1	6 Packs	6	
91131A090	Black-Oxide Steel Leveling Washer, Two Piece, 3/4" Screw Size	6 Each	6	
91257A572	Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/4"-28 Thread Size, 2-1/4" Long, Packs of 25	1 Pack	1	
91922A227	Steel Mil. Spec. Washer, Zinc-Plated, 3/8" Screw Size, MS-51412-26, Packs of 50	1 Pack	1	

Packing List

00 Aurora Industrial Pkwy
Aurora OH 44202-8087
30-995-5500
le.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: PO041083

Purchase Order
PO041083

Order Placed By
Chantal Lavoie

McMaster-Carr Number
1508360-01

Page 2 of 2

09/20/2018

Line	Product	Ordered	Shipped
2	92018A540 High-Strength Steel Nylon-Insert Flange Locknut, Grade G, Zinc Yellow-Chromate Plated, 1/2"-13 Thread Size, Packs of 25	1 Pack	1
3	92383A704 400 Series Stainless Steel Slotted Spring Pin, 1/8" Diameter, 1-1/2" Long, Packs of 50	1 Pack	1
4	9452K38 Oil-Resistant Buna-N O-Ring, 1/8 Fractional Width, Dash Number 218, Packs of 100	1 Pack	1

Expected to ship

86715K27	High-Strength Oil-Resistant Buna-N Rubber Sheet, Adhesive Back, 1/16" Thick, 12" X12", 60A Durometer	4 Each	4 Oct 11-25
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